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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/734,617	12/12/2003	Raymond C. Kurzweil	14202-003001	1650	
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MINNEAPOL	IS, MN 55440-1022		ART UNIT	PAPER NUMBER	
			3661		
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SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Applicat	on No.	Applicant(s)		
		10/734,6	17	KURZWEIL, RAYMOND C.		
	Office Action Summary	Examine	r	Art Unit		
		McDieun		3661		
Period fo	The MAILING DATE of this commu	nication appears on th	e cover sheet with the	correspondence addre	ss	
A SH WHIC - Exte after - If NO	ORTENED STATUTORY PERIOD IN CHEVER IS LONGER, FROM THE INTERIOR OF THE INTERIO	MAILING DATE OF T us of 37 CFR 1.136(a). In no elementation.	HIS COMMUNICATION IN THE PROPERTY IN THE PROPE	N. mely filed the mailing date of this comm		
Any	reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).					
Status						
1)⊠	Responsive to communication(s) fi	led on <u>26 May 2004</u> .				
2a) <u></u> □	This action is FINAL .	2b)⊠ This action is a	non-final.			
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the prac	tice under <i>Ex parte Q</i>	uayle, 1935 C.D. 11, 4	53 O.G. 213.		
Disposit	ion of Claims					
4)⊠	Claim(s) 1-20 is/are pending in the	application.				
	4a) Of the above claim(s) is/	are withdrawn from co	onsideration.			
5)	Claim(s) is/are allowed.				•	
6)⊠	Claim(s) <u>1-20</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restr	iction and/or election	equirement.			
Applicat	ion Papers					
9)🖾	The specification is objected to by the	he Examiner.		•		
·	The drawing(s) filed on 12 December		ccepted or b) objec	ted to by the Examine	r.	
,	Applicant may not request that any obj			-	•	
	Replacement drawing sheet(s) including		-		1.121(d).	
11)	The oath or declaration is objected	-				
•	under 35 U.S.C. § 119	-				
_	Acknowledgment is made of a claim	n for foreign priority ur	der 35 U.S.C. § 119(a	ı)-(d) or (f).		
a)	☐ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority	y documents have be	en received.			
	2. Certified copies of the priority	y documents have be	en received in Applicat	ion No. <u></u> .		
	3. Copies of the certified copies	of the priority docum	ents have been receiv	ed in this National Sta	ge	
•	application from the Internati	onal Bureau (PCT Ru	le 17.2(a)).			
* (See the attached detailed Office acti	on for a list of the cert	ified copies not receive	ed.		
A Maabaa						
Attachmen 1) ⊠ Notic	nt(s) ce of References Cited (PTO-892)		4) Interview Summary	(PTO-413)		
	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate		
3) 🔲 Infon	mation Disclosure Statement(s) (PTO/SB/08)		5) Notice of Informal F	Patent Application		
	er No(s)/Mail Date		6) [_] Other:			
S. Patent and T	rademark Office					

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DETAILED ACTION

- 1. Claims 1-20 are presented for examination.
- 2. The abstract of the disclosure is objected to because the title should be deleted on top of the abstract. See page 16. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claim 16 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. Claim 16 recites the limitation "the second mannequin" in line 6. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

- 6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - A person shall be entitled to a patent unless -
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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7. Claims 1-4, 7-15 and 17-20 are rejected under 35 U.S.C. 102(b) as being anticipated by

Hasunuma et al. (Development of Teleportation Master System with a Kinesthetic Sensation of Presence, 1999).

As per claims 1 and 13, <u>Hasunuma et al.</u>, teaches a teleportation system and an associated method having a virtual reality encounter system comprising (see figs. 1 and 2), motion sensors positioned on a human user (see figs. 1 and 2, wherein operator being taken as human user), the motion sensors sending motion signals corresponding to movements of the user as detected by the motion sensors relative to a reference point the motion signals over a communications network (see figs. 1 and 2); and a humanoid robot (see figs. 1 and 2), receiving, from the communications network (see figs. 1 and 2), the motion signals to induce movement of the robot according to movement of the human user (see figs. 1 and 2); with respect to claim 13, sending motion signals from motion sensors positioned on a human user (see figs. 1 and 2), the motion signals corresponding to movements of the human user (see section 1, first paragraph, wherein human user being considered as operator, as noted above) as detected by the motion sensors relative to a reference point (see figs. 1 and 2). Note: The entire concept of this application has been embedded into Hasunuma's et al. publication. See entire publication.

As per claims 2 and 14, <u>Hasunuma et al</u>., teaches a teleportation system and an associated method wherein the robot includes actuators corresponding to the motion sensors, the actuators causing the robot to move (see figs. 1 and 2, particularly the humanoid which contains motion sensors, actuator etc.).

As per claim 3, <u>Hasunuma et al.</u>, teaches a teleportation system wherein the robot has life-like features, the robot comprises: a body; a camera coupled to the body, the camera for sending video signals to the communications network; and a microphone coupled to the body, the microphone for sending audio signals to the communications network (see fig. 1, particularly the Humanoid Robot), note that this particular robot contains a camera couple the head which a part of the body for sending video signals to the control Cockpit. Also this particular robot contains audio signals capability and antenna in the back of the robot indicates wireless network connection.

As per claim 4, <u>Hasunuma et al.</u>, teaches a teleportation system that further comprising: a set of goggles including a display to render the video signals received from the camera and a transducer to transduce the audio signals received from the microphone (see fig. 1 as noted above and fig. 2, particularly the HMD).

As per claim 6, **Hasunuma** et al., teaches a teleportation system wherein the communications network comprises (see figs. 1-2, as noted above): a first communication gateway in the first location (see fig. 1, wherein the Humanoid Robot's location being considered as the first location); and a second communication gateway in the second location (see fig. 1, wherein the Cockpit being considered as the second commutation gateway), the second

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processor connected to the first processor via a network (see fig. 1, wherein the Cockpit processor being connected the robot's processor).

As per claim 7, <u>Hasunuma et al</u>., teaches a teleportation system wherein the communications network comprises an interface having one or more channels for: receiving the audio signals from the microphone; receiving the video signals from the camera; sending the audio signals to the set of goggles; and sending the audio signals to the transducer (see fig. 1 and figs. 2 and 3, particularly the HMD from figure 2, as noted above).

As per claim 8, <u>Hasunuma et al.</u>, teaches a teleportation system wherein the body includes an eye socket and the camera is positioned in the eye socket (see fig. 1, particularly the camera).

As per claim 9, <u>Hasunuma et al.</u>, teaches a teleportation system wherein the body includes an ear canal and the microphone is positioned within the ear canal (the robot of figure being considered as having an ear canal and its microphone can be placed anywhere as far design is concerned).

As per claim 10, <u>Hasunuma et al</u>., teaches a teleportation system wherein the set of goggles, comprise a receiver to receive the video signals (see fig. 2, element HMD).

As per claim 11, <u>Hasunuma et al.</u>, teaches a teleportation system wherein the robot, comprises a transmitter to wirelessly send the audio signals, motion signals and the video signals to the communications network (see figs. 1 and 2 as noted above).

As per claim 12, <u>Hasunuma et al</u>., teaches a teleportation system that further comprising: a first communication gateway in the first location the first communication gateway further comprising: a computing device that receives the motion signals and transmits the motion signals over the communications network (see fig. 1, wherein the robot's computer being serve as computing device).

As per claim 18, <u>Hasunuma et al.</u>, teaches a teleportation method sending audio signals over the communications network, the audio signals being produced from a microphone coupled to the robot (see fig. 1, see section 2.1, first paragraph); sending the video signals to the communications network (see fig. 1, wherein the arrow between the Cockpit and Humanoid show proof or two way commutation, particularly "audio-visual"), the video signals being produced from a camera coupled to the robot (see the Humanoid camera as noted above); rendering the video signals received from the communications network using a display embedded in a set of goggles (see figs. 1-2, particularly the control Cockpit); and transducing the audio signals received from the communications network using a transducer embedded in the set of goggles (see figs. 1-2, as noted above).

As per claim 17, <u>Hasunuma et al.</u>, teaches a teleportation method wherein the robot includes an eye socket and the camera is positioned in the eye socket (see fig. 1, particularly the camera, as noted above).

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As per claim 18, <u>Hasunuma et al</u>., teaches a teleportation method wherein the robot includes an ear canal and further comprising positioning the microphone within the ear canal (the robot of figure being considered as having an ear canal and its microphone can be placed anywhere as far design is concerned, as noted above).

As per claim 19, <u>Hasunuma et al.</u>, teaches a teleportation method wherein the set of goggles, comprises a receiver to receive the video signals (see fig. 2, element HMD as noted above).

As per claim 20, <u>Hasunuma et al.</u>, teaches a teleportation method wherein the robot further comprises a transmitter to wirelessly send the audio signals, the motion signals and the video signals to the communications network (see figs. 1 and 2, as noted above).

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 5 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Hasunuma et al.

As per claim 5, **Hasunuma** *et al.*, teaches essential features of the invention substantially as claimed with the exception of a second humanoid robot in the second location, and a second set of goggles to receive the video signals; and with respect to claim 16, a second mannequin.

However, it would have been obvious to modify Hasunuma *et al.* teachings by using more than one robot/mannequin, that would require more than one goggle to receive video signals or any signals, because modification would have been a desire feature into Hasunuma *et al.* teachings in order to improve the usability and the functionability of system as a whole.

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Any inquiry concerning this communication or earlier communications from the 10. examiner should be directed to McDieunel Marc whose telephone number is (571) 272-6964. The examiner can normally be reached on 6:30-5:00 Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Examiner

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Thursday, March 15, 2007

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